	COATING OR PLASTIC COMPOSITIONS	8	Fat, fatty oil, fatty oil acid
1.05	.Metal-depositing composition or	0	or salt thereof containing
	substrate-sensitizing	9	Fatty oil
	compositions for metal- depositing compositions	10	Wax, bituminous material or tarry residue containing
1.11	Sensitizing composition	11	Hydrocarbon containing
1.12	Metal-depositing composition	12	.Saturating or indurating
	contains mixtures of elemental	13	.Fog, frost or ice preventive
	metal and a metal compound	14.05	.Corrosion inhibiting coating
	other than solely as a Group		composition
	IA metal compound	14.11	Contains water
1.13	Elemental metal is Group IB	14.12	Phosphorus material
	(Cu, Ag, Au)	14.13	Carboxylic acid, ester,
1.14	Elemental metal is Ag		alcohol or sulfur or metal
1.15	Elemental metal is noble metal		derivative
	of Group VIII (Ru, Rh, Pd, Os, Ir, Pt)	14.14	Inorganic material other than water
1.16	Elemental metal is Group IIB	14.15	Organic nitrogen-containing
	(Zn, Cd, Hg) metal		material, e.g., amine, amide,
1.17	Elemental metal is Zn		etc.
1.18	Metal-depositing composition	14.16	Heterocyclic nitrogen-
	contains elemental metal of	1 4 1 7	containing material
1 10	Group IB (Cu, Ag, Au)	14.17	Inorganic material other
1.19	Elemental metal is Ag	14 10	than water
1.21	Metal composition contains	14.18 14.21	Amine salt of carboxylic acidInorganic material or
	elemental noble metal of Group VIII (Ru, Rh, Pd, Os, Ir, Pt)	14.21	elemental component thereof,
1.22	Metal-depositing composition		e.g., S, metal, etc.
	contains mixtures of metal	14.22	Contains animal, vegetable,
	compounds other than solely as		fish oil or a fraction or
	Group IA metal compounds,		derivative thereof
	e.g., electroless	14.23	Carboxylic acid, ester,
1.23	At least one metal is a Group		alcohol or metal or sulfur or
	IB (Cu, Ag, Au) metal		amine or amide derivative
1.24	At least one metal is a noble		thereof
	<pre>metal of a Group VIII (Ru, Rh, Pd, Os, Ir, Pt) metal</pre>	14.24	Carboxylic acid, ester, or amine or amide derivative
1.25	Metal-depositing composition	14.25	Inorganic material or
	contains polyvalent metal		elemental component thereof
	compound	14.26	Contains petroleum oil or a
1.26	Group IB (Cu, Au) metal		fraction thereof
1.27	Group VIII metal	14.27	Carboxylic acid, ester,
1.28	Group VIII noble metal (Ru,		alcohol or sulfur or metal
	Rh, Pd, Os, Ir, Pt)		derivative thereof
1.29	Group IIB (Zn, Cd, Hg) metal	14.28	Metal salt of carboxylic acid
2	.Coating repellent	14.29	Metal salt of sulfonic acid
3	.Polishes	14.31	Organic nitrogen-containing
4	Protein or derivative		material, e.g., amine, amide,
	containing		etc.
5	Carbohydrate or derivative	14.33	Inorganic material or
	containing		elemental component thereof,
6	Natural resin or derivative		e.g., S, metal, etc.
	containing		
7	With fatty oil		

14.34	Contains wax, bitumen, asphalt, gum, natural resin, varnish,	18.23	Elemental sulfur or sulfur- containing organic compound
14.35	<pre>lacquer, or paintCaboxylic acid, ester, alcohol</pre>	18.24	Halogen-containing organic compound
	or sulfur or metal derivative	18.25	With at least one inorganic
14.36	Metal salt of carboxylic acid		material which is other than
14.37	Organic nitrogen-containing		water
	material	18.26	Metal-containing material
14.38	Organic sulfur-containing material	18.27	Group IIB metal atom (Zn, Cd, Hg)
14.39	Inorganic material or elemental component thereof	18.28	Group VA metal atom (As, Sb, Bi)
14.41	Contains mixture of at least	18.29	Wax containing
	two organic compounds	18.3	Boron containing
14.42	Organic nitrogen-containing	18.31	Phosphorus containing
	material	18.32	Nitrogen-containing compound
14.43	Organic sulfur-containing material	18.33	Nitrogen compound contains a sulfur atom
14.44	Contains mixture of organic material and at least one	18.34	Elemental sulfur or sulfur- containing organic compound
	inorganic material or	18.35	Halogen-containing organic
	elemental component thereof	10.33	compound
14.45	Elemental S or inorganic	18.36	Group IIB metal containing (Zn,
	sulfur-containing compound	10.30	Cd, Hg)
14.5	.Hectographic or copying	31.01	.Marking
15.05	.Contains fireproofing or	31.02	Odor masked, odor reduced, or
	biocidal agent		perfumed
16	Natural resin or derivative containing	31.03	Composition for marking live animal or plant, or for
17	With fat, fatty oil, fatty oil acid or salt thereof		<pre>marking animal derived products (e.g., animal skins,</pre>
18	Fat, fatty oil, fatty oil acid		etc.)
	or salt thereof containing	31.04	Reflecting composition for
18.11	Contains fireproofing agent		marking pavement or sign
18.12	Silicon containing	31.05	Composition for marking an
18.13	Boron containing		inorganic settable or ceramic
18.14	Phosphorus containing		object (e.g., for marking
18.15	Nitrogen-containing	21 26	cement or glass, etc.)
	phosphorus compound	31.06	Composition for marking metal
18.16	Inorganic compound contains	21 25	or metal product
	a phosphorus and a nitrogen	31.07	Indelible crayon
	atom	31.08	Wax containing
18.17	Contains phosphorus directly bonded to nitrogen	31.09	<pre>Erasable crayon (i.e., washable or removable crayon)</pre>
18.18	Phosphorus compound is	31.1	Wax containing
	organic	31.11	Pencil leads
18.19	Phosphorus compound which is	31.12	Wax containing
	organic contains halogen	31.13	Inks
18.2	With halogen-containing	31.14	Invisible
	compound	31.15	Fluorescent
18.21	Nitrogen-containing organic compound	31.16	Chromogenic (i.e., color formation by reaction of color
18.22	Nitrogen compound contains a		former with color developer)
	sulfur atom		

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containing 31.64Erasable, purified, correctable, fugitive, indicator, conductive, fluorescent, chromogenic, or				
31.43Organic nitrogen compound containing correctable, fugitive, indicator, conductive, fluorescent, chromogenic, or	31.42		21 64	
containing indicator, conductive, fluorescent, chromogenic, or		containing	31.04	
fluorescent, chromogenic, or	31.43	Organic nitrogen compound		
		containing		
magnetic composition				
				magnetic composition

31.65	Specified particle size or coated particle containing	31.92	Electrically conductive or magnetic compositions (e.g.,
31.66	Fat, fatty oil, fatty acid, or derivative thereof containing		<pre>electrically sensitive, electrochemical, electrolytic, etc.)</pre>
31.67	Fatty acid or derivative containing	31.93	Felt tip or correction composition
31.68	Carbohydrate or derivative containing	31.94	Carbohydrate, protein, or derivative containing
31.69	Cellulose or derivative containing	31.95	Glass, glass derivative, carbon, or free metal
31.7	Carbohydrate gum containing		containing
31.71	Starch containing	31.96	Natural resin or derivative
31.72	Natural resin or derivative		thereof containing
	containing	31.97	Organic nitrogen compound or
31.73	Rosin or derivative		organic sulfur compound containing
31.74	Shellac or derivative	32.5	.Erasable surface
51.71	containing	33	.Leak stopping
31.75	Organic nitrogen compound	34	Stains
31.73	containing	35	.Dental
31.76	The nitrogen is a ring	36	.Tractive or friction surface
31.70		37	.Sound recording
31.77	member of a heterocyclic ringSix-ring members in the	38	.Shoe filling
31.77	heterocyclic ring	38.2	.Molds and mold coating
31.78	Five-ring members in the	30.2	compositions
31.70	heteroyclic ring	38.22	Compositions for coating and
31.79	Acyclic azo attached	33.22	lining molds
31.79	directly or indirectly to the	38.23	Carbohydrate or derivative
	heterocyclic ring by nonionic	20.04	containing
21 0	bonding	38.24	Fat, fatty oil, fatty oil acid
31.8	The nitrogen is part of an acyclic azo group	38.25	or salt thereof containingWax, bituminous or resinous
31.81	Plural acyclic azo group		material or tarry residue
	component containing		containing
31.82	Protein or derivative	38.27	Inorganic materials only
	containing	38.28	Elemental carbon containing
31.83	Gelatin, glue, or	38.3	Alkali metal silicate or
31.84	derivative containingCasein or derivative		inorganic settable ingredient containing
	containing	38.35	With organic material
31.85	Specified vehicle, solvent,	38.4	Protein or derivative
	or dispersing medium		containing
	containing	38.51	Carbohydrate or derivative
31.86	Organic oxygen compound	20.6	containing
21 00	containing	38.6	Natural resin or derivative
31.87	Organic sulfur compound containing	38.7	<pre>containingFat, fatty oil, fatty oil acid</pre>
31.88	Hydrocarbon compound		or salt thereof containing
32.00	containing	38.8	Wax, bituminous material or
31.89	Specified surfactant		tarry residue containing
	containing	38.9	Inorganic materials only
31.9	The pigment is inorganic	600	.Alkali metal silicate containing
31.91	Bituminous material or tarry	601	Pore forming or product thereof
	residue containing		

602	Perlite, slag, ash or ceramic	631	Perlite, rock, stone, shale,
603	materialOrganic material containing		slate, flint, granite, feldspar or limestone
604	Process employing steam,		containing
001	electrical, magnetic or wave	632	Clay containing
	energy or product thereof or	633	Soil or diatomaceous earth
	specified particle size or		containing, or material for
	shape		treating soil or earth (e.g.,
605	Hollow, foam, cellular or		soil stabilization, etc.)
003		634	Organic material containing
	porous materials containing		3
606	Portland type cement containing	635	Zirconium, titanium, zinc,
607	Soil, diatomaceous earth or		lead, iron, or tin compound
	clay containing or material		containing (Zr, Ti, Zn, Pb,
	for treating soil or earth,		Fe, Sn)
	(e.g., soil stabilization,	636	Particle size specified
	etc.)	637	Fluorine containing
608	Organic material containing	638	.Inorganic settable ingredient
609	Carbohydrate containing		containing
610	Natural resin containing (e.g.,	639	For use underwater
	rosin, shellac, turpentine,	640	Free metal or alloy containing
	tall oil, etc.)		(e.g., dust, powder, etc.)
611	Calcium sulfate containing	641	Aluminum
612	Lime containing	642	Organic material containing
613	Organic material containing	643	Iron or steel
614	Protein containing	644	Fiber bar or wire containing
615	Carbohydrate containing	645	Protein containing (e.g., glue,
616	With other organic material	043	gelatine, albumin, blood,
617	Carbohydrate containing		etc.)
618	Carbonydrate containing	646	Hollow, foam, cellular or
619		040	porous material
	Wood, paper, or paper pulp	647	-
620	Higher fatty acid or ester,	047	Soil, diatomaceous earth,
	amide or salt thereof		clay, rock, stone, granite,
C 0 1	containing		flint, slate, shale, or material for treating soil or
621	With other organic material or		earth (e.g., soil
	asbestos		stabilization, etc.)
622	Wax, paraffin, oil shale, or	C 4 0	
	bituminous material containing	648	With organic material other
	(e.g., asphalt, pitch, tar,	- 4.0	than protein
	etc.)	649	Cereal grain or derived
623	Free metal or alloy containing		therefrom or vegetable flour
624	Ash, slag, slag wool, rock		or meal (e.g., gluten, corn
	wool, mineral wool, asbestos,		flour, rice, rye, etc.)
	or organic garbage or sewage	650	Calcium sulfate containing
	material containing	651	With organic material other
625	Asbestos containing		than protein
626	Mica, elemental carbon, zeolite	652	Carbohydrate
	or talc containing	653	Plant or vegetable fiber
627	Sulfur containing (e.g., alum,		(e.g., wood, sawdust, etc.)
	etc.)	654	Portland type cement, slag,
628	Boron containing		talc, mica, asbestos, ash, or
629	Phosphorus containing		alum containing
630	Organic material containing	655	With organic material other
	<u> </u>		than protein
		656	Carbohydrate

657	Natural resin containing (e.g.,	681	Soil, diatomaceous earth,
057		001	clay, shale, slate or rock
	shellac, turpentine, balsam,		material containing or
650	copal, etc.)		material containing or material for treating soil or
658	Calcium sulfate, aluminous or		
650	oxy salt type cement		earth (e.g., soil
659	Rosin or tall oil (e.g.,	682	stabilization, etc.)
	colophony, etc.)	082	Physical introduction of gas
660	Wax containing (e.g., petroleum		(e.g., by mixing, agitation,
	wax, beeswax, montan wax,	602	injection, whipping, etc.)
	carnauba wax, spermaceti,	683	Oxy salt type cement
	etc.)	684	Soil, diatomaceous earth,
661	Higher fatty acid or ester,		clay, slate or shale
	amide or salt thereof		containing or material for
	containing (e.g., fish oil,		treating soil or earth (e.g.,
	vegetable oil, soap, etc.)	605	soil stabilization, etc.)
662	Soil, diatomaceous earth,	685	Magnesium oxy-chloride (e.g.,
	shale, slate or clay,		Sorel cement, etc.)
	containing, or material for	686	Organic material containing
	treating soil or earth (e.g.,	687	Carbohydrate (e.g.,
	soil stabilization, etc.)		cellulose, etc.)
663	Linseed oil or tallow	688	Specified filler, dye or
	containing		pigment (e.g., silica,
664	Portland type cement		feldspar, carbon, talc,
	containing		asbestos, slag, mineral wool,
665	With other organic material		etc.)
666	Stearic acid or derivative	689	Organic material or specified
667	Lime containing		filler
668	Bituminous material or tarry	690	Phosphate based cement
	residue, pitch, or coal	691	Specified filler or organic
	containing		material containing
669	Soil, diatomaceous earth, or	692	Aluminous cement (e.g., high
	clay, containing, or material		alumina, calcium aluminate,
	for treating soil or earth		etc.)
	(e.g., soil stabilization,	693	Cement clinker preparation
	etc.)	694	Soil, diatomaceous earth,
670	Calcium sulfate containing		clay, shale, slate, or rock-
671	With other organic material		type material containing or
672	Hollow, foam, cellular or		material for treating soil or
	porous material containing or		earth (e.g., soil
	method of forming cellular or		stabilization, etc.)
	porous product	695	With other cement material
673	Peroxide or hypochlorite		(e.g., Portland, calcium
	containing		sulfate, etc.)
674	Carbohydrate containing	696	Organic material containing
675	Perlite or vermiculite	697	Organic garbage, refuse sewage,
	containing (e.g., jeffersite,		or waste material containing
	etc.)		or treating (other than
676	Glass containing		sulfite waste liquor)
677	Organic material containing	698	Perlite containing
678	Organic sulfur or organic	699	Asbestos containing (e.g.,
	phosphorus		amosite, chrysotile, etc.)
679	Slag, cinder or ash containing	700	Slag, ash or organic material
680	Calcium sulfate containing		containing
	(e.g., anhydrite, plaster of	701	Calcium sulfate containing
	Paris, gypsum, etc.)		(e.g., gypsum, plaster of
	, <u>J.1.</u> ,		Paris, anhydrite, etc.)

702	Soil, diatomaceous earth,	727	Organic nitrogen compound
	clay, slate, shale or rock containing or material for	728	Carboxylic acid, ester or salt thereof
	treating soil or earth (e.g.,	729	
	soil stabilization, etc.)	730	CarbohydrateStarch, dextran, cellulose
703	Portland type cement	750	ether or gum
704	Lime containing	731	Plant material (e.g.,
705	Ash containing (e.g., fly ash,	751	vegetable fiber, wood, etc.)
	volcanic ash, coal ash, etc.)	732	Calcium sulfate specified
706	Soil, diatomaceous earth,		(e.g., gypsum, anhydrite,
	clay, shale, slate or rock		plaster of Paris, etc.)
	containing or material for	733	Titanium, vanadium, chromium,
	treating soil or earth (e.g.,		molybdenum, tungsten,
	soil stabilization, etc.)		manganese, iron, copper, zinc,
707	With slag, coke, cinder, stack		tin or lead compound
=	dust, kiln dust or flue dust		containing (Ti, V, Cr, Mo, W,
708	Organic material containing	= 0.4	Mn, Fe, Cu, Zn, Sn, Pb)
709	Portland type cement	734	Halogen containing (F, Cl, Br,
710	With additional lime	7 25	I)
711	Mineral fibers or glass fibers	735	Calcium sulfate specified
	containing (e.g., slag wool,		(e.g., gypsum, anhydrite,
	<pre>cotton wool, mineral wool, rock wool, etc.)</pre>	736	plaster of Paris, etc.)
712	Color additive (other than	730	<pre>Sulfur containing (e.g., alum, etc.)</pre>
712	whitener)	737	Silica containing (e.g., sand,
713	Portland type cement	737	quartz, etc.)
714	Slag containing (e.g., blast	738	Rock, gravel, stone or
	furnace slaq, etc.)		carbonate containing (e.g.,
715	Calcium sulfate specified		limestone, dolomite, etc.)
	(e.g., gypsum, anhydrite,	739	Portland type cement per se
	plaster of Paris, etc.)		(e.g., clinker preparation,
716	With mica, talc, cinder,		etc.)
	glass, vermiculite, coke	740	Process involving spray
	breeze or kiln dust		drying, atomizing of solid
717	Boron, elemental carbon or		material, steam,
=4.0	phosphorus containing		nonatmospheric pressure,
718	Soil, diatomaceous earth,		cleaning step or avoiding
	clay, slate or shale,	741	contamination of equipmentColor control or modification
	<pre>containing or material for treating soil or earth (e.g.,</pre>	/ 41	(e.g., steps to produce white
	soil stabilization, etc.)		cement, etc.)
719	Organic material containing	742	Cooling in reducing
720	Carbohydrate		atmosphere
721	Silica or lime added	743	Control of a parameter of
722	Calcium sulfate specified		operation in response to a
	(e.g., gypsum, anhydrite,		measurement or test or to vary
	plaster of Paris, etc.)		a result in a process
723	Process involving steam,	744	Employment of a fluidized bed
	electrical, magnetic or wave	745	Waste material employed as
	energy, vibration or vacuum or		raw material or fuel (not kiln
	product thereof	- 4 -	dust)
724	Organic material containing	746	Electrical, magnetic or wave
725	Organic sulfur compound		energy employed (e.g.,
726	Cellulose or silica		electric arc, etc.)
	containing (e.g., sand, etc.)		

747	Use of heat transmitting or conducting solid material for	765	Calcium sulfate containing raw material
	cooling solid material from gas or for modifying temperature of solid material	766	<pre>Phosphorus, boron, chromium, molybdenum, vanadium, or nickel containing raw material</pre>
748	Aftertreatment of clinker		(P, B, Cr, Mo, V, Ni)
749	Refire or recalcine clinker	767	Slag containing raw material
750	<pre>Specified cooling (e.g., recycling heated coolant, etc.)</pre>	768	<pre>Potassium, halogen or sulfur containing raw material (K, F, Cl, Br, I, S)</pre>
751	Involving kiln dust (e.g., recovery, treatment,	769	Iron or manganese containing raw material (Fe, Mn)
	processing thereof or product,	770	Slurry employed
	etc.)	771	Preprocessing or processing
752	Treatment or removal of		of raw material before firing
	alkali, sulfurous or chloride		<pre>(e.g., preheating, etc.)</pre>
	impurities from raw material or fuel	772	<pre>Calcium sulfate (e.g., gypsum, anhydrite, plaster of Paris,</pre>
753	Agglomerate, pellet, molded		etc.)
	or shaped form of raw material	773	Soil, diatomaceous earth,
754	Sheet, film, layered, brick,		clay, slate or shale,
	briquette, block, fiber,		containing or material for
	strand, cake or egg shape		treating soil or earth (e.g.,
755	Fuel containing		soil stabilization, etc.)
756	Classifying, sorting,	774	Organic material containing
	separating, screening, sizing, grading or subdividing solid	775	<pre>Anhydrous calcium sulfate (e.g., anhydrite, etc.)</pre>
	material (e.g., centrifugal	776	Organic material or slag
	separation, flotation, etc.)		containing
757	Comminuting or grinding,	777	Keene's cement
	other than nominal, of raw	778	With organic material
	material or fuel (e.g., to	779	Carbohydrate
	desired size or relative	780	Cellulose (e.g., wood, cork,
	sizes, etc.) or recited		bark, etc.)
	particle of specified size	781	Silicon, sulfur, nitrogen or
758	Raw material and fuel	, 01	phosphorus containing organic
	premixed or specified fuel		material
759	Flow of gases to produce	782	Slag, cinder, mica, talc,
	turbulence (e.g., spiral,	702	glass, boron or elemental
	helical, Venturi, centrifugal,		carbon containing
	etc.)	783	Layered or coated material,
760	Shape, angle, intensity or	703	nominal molding or shaping, or
	condition of fuel or flame		other physical process (e.g.,
	specified (e.g., jet,		steam, electrical, magnetic or
	oscillating, plural streams,		wave energy, manipulative
	spray, temperature, etc.)		steps, etc.)
761	Recycling exhaust gas,	784	Particle size specified
	reusing heat from process, or	785	
	purifying exhaust gas	765	Stabilizer, retarder, or
762	Processing of exhaust gas	706	setting agent specified
	prior to recycling (e.g.,	786	By-product gypsum (e.g.,
	purifying, separating	5 05	phosphogypsum, etc.)
	constituents, etc.)	787	Alum or halogen containing
763	Ash containing raw material	788	Silica containing (e.g., sand,
764	Organic material or sea shell		quartz, etc.)
- -	containing raw material	789	Slag

790	Organic material, soil,	815	Boron, sulfur, or halogen
790	_	013	
	diatomaceous earth, clay,	016	containing (e.g., alum, etc.)
	slate, shale, or rock type	816	Particle size specified
	material containing or	817	Rock, stone, gravel, trass,
	material for treating soil or		shell or carbonate containing
	earth (e.g., soil		(e.g., limestone, etc.)
	stabilization, etc.)	818	Process involving a temperature
791	Lime containing		of zero degrees C. or below
792	Lime	122	.Pore forming
793	Soil, diatomaceous earth,	123.11	.Cellulose liberation waste
	clay, slate or shale,		liquor, solid, or reaction
	containing or material for		product thereof containing
	treating soil or earth (e.g.,		(e.g., black liquor, sulfite
	soil stabilization, etc.)		yeast liquor, neutralized
794	Organic material or halogen		sulfite liquor, etc.)
	containing	123.12	With proteinaceous material or
795	Organic material containing	123.12	carbohydrate from an external
796	Silica-lime mixtures		source
797	Fiber containing or step of	123.13	With bituminous or tarry
757	molding or shaping of material	123.13	-
798	Iron, sulfur or aluminum		residue, naturally occurring
190	•		wax, or organic compound
700	containing (e.g., alum, etc.)	104 1	containing oxygen
799	Aluminum or sulfur containing	124.1	.Proteinaceous material
	(e.g., alum, etc.)		containing
800	Magnesium compound containing	124.2	Milk
	<pre>(e.g., quicklime, dolomite,</pre>	124.3	Chemically modified tissue
	talc, etc.)		derived from multicellular
801	Magnesium compound (e.g.,		animal of indeterminate
	vermiculite, talc, soapstone,		structure (e.g., hydrolyzed,
	dolomite, etc.)		etc.)
802	Organic material containing	124.4	Tissue derived from
803	Soil, diatomaceous earth,		multicellular animal (e.g.,
	clay, slate or shale		connective tissue, muscle,
	containing, or material for		organ, tendon, etc.)
	treating soil or earth (e.g.,	124.5	Blood or blood plasma
	soil stabilization, etc.)	124.51	With carbohydrate from an
804	Carbohydrate containing		external source
805	Cellulose or plant material	124.6	Hide
806	Organic silicon, organic boron	124.61	With carbohydrate from an
	or organic phosphorus		external source
807	Mineral oil or hydrocarbon oil	124.62	With natural resin or
808	Organic nitrogen	121.02	derivative, lanolin, lecithin,
809			fat, or fatty oil
	Organic sulfur	124.7	-
810	Organic acid or derivative	124.7	Feather, scale, horn, hoof,
811	Soil, diatomaceous earth, clay,	124.8	claw, ivory, or bone
	slate or shale containing, or		Hair or fur
	material for treating soil or	124.81	With carbohydrate from an
	earth (e.g., soil		external source
	stabilization, etc.)	124.82	With natural resin or
812	With added silica (e.g., sand,		derivative, lanolin, lecithin,
	etc.)		fat, or fatty oil
813	Synthetic zeolite or so-called	124.83	With bituminous or tarry
	mineral polymer containing		residue, hydrocarbon, or
814	Mica, cinder, glass or		naturally occurring wax
	elemental carbon containing		

105 1	~ 1	100 0	
125.1	Seed or tuber material (e.g.,	137.7	With nonproteinaceous
	whole grains, rice flour,		organic compound containing
	wheat flour, cornmeal, etc.)		oxygen except wax
126.1	With carbohydrate from an	137.71	\dots The oxygen is part of a -
	external source		C(=0)0- group
126.2	Lignocellulosic material	138.1	Cellulose xanthate or viscose
	(e.g., flock, sawdust, wood,		or cuprammonium cellulose
	etc.)	139.1	Cellulose ester or salt
126.3	Carbohydrate gum or		thereof
	cellulosic material	139.2	With nonproteinaceous
127.1	With nonproteinaceous hetero		organic compound containing
	ring compound		sulfur or nitrogen
128.1	With nonproteinaceous	139.3	With nonproteinaceous
	phosphorus or boron compound		organic compound containing
	or organic compound containing		oxygen except wax
	silicon	140.1	Cellulose ether or salt
129.1	With natural resin or		thereof
	derivative	140.2	With natural resin or
130.1	With terpene or derivative	110.2	derivative
130.1	(e.g., pine oil, clove oil,	140.3	With nonproteinaceous
	spirits of turpentine, etc.)	110.5	organic compound containing
131.1	With nonproteinaceous organic		oxygen except wax
131.1	compound containing sulfur or	141.1	With nonproteinaceous
	nitrogen	141.1	
132.1	With nonproteinaceous organic		noncarbohydrate hetero ring compound
132.1	compound containing oxygen	142.1	With nonproteinaceous organic
	except wax	142.1	compound containing sulfur or
132.2	The oxygen is part of a -		nitrogen
132.2	C(=0)0- group	143.1	_
133.1	With bituminous or tarry	143.1	With nonproteinaceous organic
133.1	residue, hydrocarbon, or		compound containing oxygen except wax
	naturally occurring wax	144.1	-
134.1	With element or inorganic	144.1	Dextrin or derivative, carbohydrate gum or derivative
134.1	compound except water		(e.g., arabic, tragacanth,
134.2	Elemental silicon or		guar, karaya, agar agar,
134.2			algin, irish moss, etc.)
135.1	inorganic silicon compound	144.2	With nonproteinaceous
136.1	With carbohydrate or derivativeCellulosic material	144.2	phosphorus or boron compound
			or organic compound containing
137.1	Lignocellulosic material		silicon
	(e.g., flock, sawdust, wood,	144.3	With natural resin or
127 0	etc.)	144.5	derivative
137.2	Cork or peat	144.4	With lanolin, fat, or fatty
137.3	With nonproteinaceous	144.4	oil
	noncarbohydrate hetero ring	144.5	With terpene or derivative
105.4	compound		
137.4	With nonproteinaceous	144.6	With nonproteinaceous organic
	phosphorus or boron compound		compound containing sulfur or
	or organic compound containing	144 🖂	nitrogen
105 -	silicon	144.7	With nonproteinaceous organic
137.5	With natural resin or		compound containing oxygen
400 -	derivative	1 4 4 🖂 7	except wax
137.6	With nonproteinaceous	144.71	The oxygen is part of a -
	organic compound containing	1// 70	C(=0)0- group
	sulfur or nitrogen	144.72	Dihydric or polyhydric
			alcohol

145.1	Starch or derivative	148.5	With nonproteinaceous organic
145.2	With natural resin or	110.3	compound containing oxygen
145 2	derivative	148.51	except wax
145.3	<pre>With lanolin, lecithin, fat, or fatty oil</pre>	140.31	The oxygen is part of a - C(=0)0- group
145.4	With nonproteinaceous organic compound containing sulfur or	148.52	Dihydric or polyhydric alcohol
	nitrogen	149.1	With terpene or derivative
145.5	With nonproteinaceous organic	150.1	With nonproteinaceous hetero
	compound containing oxygen		ring compound
	except wax	150.2	With nonproteinaceous organic
146.1	<pre>Sugar or hydrogenated sugar (e.g., sorbitol, maltitol,</pre>		compound containing sulfur or nitrogen
	<pre>xylitol, etc.)</pre>	150.3	With nonproteinaceous organic
146.2	With natural resin or derivative		compound containing oxygen except wax
146.3	With lanolin, lecithin, fat,	151.1	With nonproteinaceous
	or fatty oil		phosphorus compound
146.4	With nonproteinaceous organic	151.2	With nonproteinaceous organic
	compound containing sulfur or		compound containing oxygen
	nitrogen	152.1	With nonproteinaceous boron
146.5	With nonproteinaceous organic		compound
	compound containing oxygen	153.1	With organic compound
	except wax		containing silicon
146.51	The oxygen is part of a - C(=0)0- group	154.11	With nonproteinaceous organic compound containing sulfur
147.1	With natural resin or	154.2	Carbon double bonded directly
	derivative		to the sulfur
147.2	With nonproteinaceous	154.3	Nitrogen and sulfur in the
	phosphorus or boron compound		same compound
	or organic compound containing	154.4	Sulfonated compound of
	silicon		indeterminate structure
147.3	With lanolin, fat, or fatty oil	155.1	With nonproteinaceous organic compound containing nitrogen
147.4	With terpene or derivative	155.2	Nitrogen and oxygen in the
147.5	With nonproteinaceous organic		same compound
	compound containing sulfur or	155.21	Nitrogen single bonded
	nitrogen		directly to carbon of a -
147.6	With nonproteinaceous organic		C(=0)- group
	compound containing oxygen	155.22	Alkanol amine or salt thereof
147.61	except wax	155.23	Tertiary amine oxide
	The oxygen is part of a - C(=0)0- group	156.1	With nonproteinaceous organic compound containing oxygen
148.1	With lanolin, lecithin, fat, or		except wax
140 0	fatty oil	156.2	The oxygen is part of a -
148.2	With nonproteinaceous	456.04	C(=0)- group
	phosphorus or boron compound or organic compound containing	156.21	Carbon bonded directly to the
	silicon		single bonded oxygen of the - C(=0)0- group
148.3	With terpene or derivative	156.22	Plural -C(=0)0- groups
148.4	With nonproteinaceous organic	156.23	Metal salt
	compound containing sulfur or	156.24	Metal salt of higher fatty
	nitrogen	100.21	acid

156.25	With additional nonproteinaceous organic compound containing oxygen	162.5	<pre>With lignocellulosic material (i.e., mixture of a lignocellulosic material and a</pre>
156.3	Carbonyl group containing		carbohydrate material which is
156.31	With additional		other than a lignocellulosic
	nonproteinaceous organic compound containing oxygen		<pre>material or a component thereof)</pre>
156.4	Ether except dialkylene or	162.51	The carbohydrate is starch
130.1	polyalkylene glycol	162.6	With cellulose xanthate or
156.5	Dihydric or polyhydric alcohol		viscose (i.e, mixture of
156.51	Glycerol		cellulose xanthate or viscose
150.51	-		and a carbohydrate material
15/.1	With bituminous or tarry residue, hydrocarbon, or		which is other than cellulose xanthate or viscose)
	naturally occurring wax	162.7	With cellulose ester or salt
157.2	With element or inorganic compound except water	102.7	thereof (i.e., mixture of (A)
157.3	<pre>Mineral acid (e.g., sulfuric, nitric, etc.)</pre>		a cellulose ester or salt thereof and (B) a carbohydrate
157.4	Ammonium hydroxide (i.e.,		material which is other than
	ammonium hydrate, aqua		cellulose ester or salt of the
	ammonia, ammonia solution) or		same acid as in (A) differing
	ammonia		only in the degree of
157.5	Elemental sulfur or inorganic	160 71	esterification)
	sulfur compound	162.71	The carbohydrate is a cellulose material
157.51	Aluminum sulfate (e.g., alum,	160 70	
	<pre>pearl alum, cake alum, etc.)</pre>	162.72	Diverse cellulose ester or
157.6	Elemental halogen, inorganic		salt thereof (i.e., mixture of two or more cellulose esters
	halogen compound, or inorganic		or salts of diverse acids or
	nitrate compound		mixture of two or more
157.7	Elemental silicon or inorganic		cellulose mixed esters or
	silicon compound		salts of different diverse
157.71	Clay		acids groups)
157.8	Metal oxide	162.8	With cellulose ether or salt
157.9	Alkali or alkaline earth metal	102.0	thereof (i.e., mixture of (A)
	hydroxide (e.g., caustic soda,		a cellulose ether or salt
	caustic alkali, caustic lime,		thereof and (B) a carbohydrate
	etc.)		material which is other than
158.1	Albumin or derivative		cellulose ether or salt of the
159.1	Casein or derivative		same etherifying radical as in
160.1	Gelatin or collagen or		(A) differing only in the
	derivative (e.g., glue, etc.)		degree of etherification)
161.1	<pre>Prolamine or derivative (e.g., zein, etc.)</pre>	162.81	The carbohydrate is starch or derivative
162.1	.Carbohydrate or derivative	162.82	The carbohydrate is diverse
102.1	containing	102.02	cellulose ether or salt
162.2	Aminopolysaccharide (e.g,		thereof (i.e., mixture of two
	heparin, glycosamine,		or more cellulose ethers or
	mucopolysaccharide, chitin,		salts of diverse etherifying
	hyaluronic acid, etc.)		radicals or mixture of two or
			more cellulose mixed ethers or
			salts of different diverse
			etherifying radical groups)

162.9	With cellulosic material (i.e., mixture of a cellulosic material and a carbohydrate material which is other than a cellulosic material)	166.42	Oxygen and nitrogen in the same compound (e.g., ammonium alkyl sulfonate, tertiary amine oxide, triethanolamine, etc.)
163.01	Cellulosic material	166.43	The express is part of a
164.01	Lignocellulosic material (e.g., wood, bark, straw,	100.43	The oxygen is part of a - C(=0)- group (e.g., amide, urea, etc.)
	bagasse, wood pulp, etc.)	166.5	With organic compound
164.1	Cork	100.5	containing oxygen
		166 51	
164.11	<pre>With fat, fatty oil, higher fatty acid or derivative</pre>	166.51	Natural resin or organic - C(=0)0- compound (e.g., rosin,
164.12	With bituminous or tarry residue		<pre>tall oil, tallow, castor oil, carboxylic acid, etc.)</pre>
164.2	Peat	166.52	Dihydric or polyhydric
164.3	With organic compound containing nitrogen		alcohol or ether derivative thereof
164.4		166.6	With organic compound
164.4	With organic compound	100.0	containing halogen
	containing chalcogen	166 7	
164.41	Natural resin or derivative	166.7	With bituminbous or tarry
164.42	With hydrocarbon (e.g.,		residue or hydrocarbon (e.g.,
	petroleum fraction, paraffin,		petroleum fraction, paraffin,
	olefin, acetylene, etc.)		olefin, acetylene, etc.)
164.43	With fat, fatty oil, higher	166.8	With element or inorganic
	fatty acid or derivative		compound except water
164.44	Fat, fatty oil, higher fatty acid or derivative	166.81	Elemental titanium or inorganic titanium compound
164.5	With element or inorganic	166.82	Elemental silicon or
101.5	compound except water		inorganic silicon compound
164.51	Elemental silicon or	167.01	Cuprammonium cellulose
101.51	inorganic silicon compound	168.01	Cellulose ester or salt
164.52	Asbestos		thereof
164.53	Elemental sulfur or	169.01	Cellulose nitrate
_01.00	inorganic sulfur compound	169.1	With nitrogen hetero ring
164.6	With bituminous or tarry residue		<pre>compound (e.g., succinimide, caprolactam, piperazine, etc.)</pre>
165 01		169.11	The hetero ring is part of
165.01	Chemically modified lignocellulosic material of	107.11	a polycyclo ring system (e.g., guanine, phthalimide, etc.)
	indeterminate structure (e.g.,	169.12	
166 01	hydrolyzed, etherified, etc.)	109.12	<pre>With chalcogen hetero ring compound (e.g., lactone,</pre>
166.01	Cellulose xanthate or viscose		maleic anhydride, furan, etc.)
166.1	With organic compound	169.13	Plural oxygens in the
	containing silicon	100.13	hetero ring (e.g., dioxane,
166.2	With phosphorus compound		dioxene, etc.)
166.3	With organic compound	169.14	With phosphorus compound
	containing sulfur	169.15	Trialkyl or triaryl
166.31	Carbon double bonded directly to the sulfur	107.13	phosphate or mixed esters
166.4	With organic compound containing nitrogen		thereof (e.g., tributyl phosphate, triphenyl
166.41	The nitrogen is a member of		phosphate, dicresyl lauryl
	a hetero ring		ortho phosphate, etc.)
	· · · · · · · · · · · · · · · · · · ·	169.16	With boron compound
		169.17	With organic compound
			containing silicon

169.18	<pre>With natural resin or derivative</pre>	169.36	Carbocyclic ring attached directly or indirectly to the
169.19	Chemically modified natural		-C(=)0- groups
	<pre>resin of indeterminate structure (e.g., oxidized, polymerized, hydrogenized, esterified, etc.)</pre>	169.37	Exactly two -C(=0)0- groups attached directly to the carbocyclic ring by nonionic bonding
169.2	With additional diverse	169.38	Oxygen, other than in -
169.21	natural resin or derivativeWith naturally occurring wax (e.g., mineral, ceresin,	169.39	C(=0)0- group, attached indirectly to the -C(=0)0- groups by nonionic bonding
160.00	etc.)	109.39	Esterified dihydric or
169.22	With fatty oil or		polyhydric alcohol
1.60.00	<pre>derivative (e.g., coconut, cottonseed, soybean, fish, sperm oil, etc.)</pre>	169.4	Nitrogen or oxygen bonded directly to the carbon of the -C(=0)0- group (e.g., diethyl
169.23	With carboxylic acid, ester, or salt thereof		carbonate, dodecyl phenylcarbamate, octyl
169.24	With organic compound		carbanilate, urethane, etc.)
	containing oxygen	169.41	131
169.25	With chemically modified		to the -C(=0)0- group by
	lanolin, fat, or fatt oil	1.50 1.0	nonionic bonding
	(e.g., blown, polymerized,	169.42	Benzene ring attached
	hydrogenized, esterified,		directly or indirectly to the
	etc.)		-C(=0)0- group by nonionic
169.26	With lanolin, fat, or fatty	160 42	bondingWith organic compound
	oil, (e.g., lard, tallow, castor oil, linseed oil, etc.)	109.43	containing oxygen (e.g.,
169.27	With organic compound		alcohol, ketone, additional
107.27	containing oxygen		carboxylic acid esters, etc.)
169.28	With terpene or derivative	169.44	Metal or Nitrogen salt
107.20	(e.g., pine oil, terpineol,	169.45	With organic compound
	borneol, etc.)		containing sulfur
169.29	Camphor	169.46	With organic compound
169.3	With carboxylic acid,		containing nitrogen
	ester, or salt thereof	169.47	The nitrogen is single
169.31	With organic compound		bonded directly to the carbon
	containing nitrogen, halogen,		of a $-C(=0)$ - group
	or chalcogen	169.48	With organic $-C(=0)$ - group
169.32	With compound of		containing compound (e.g.,
	indeterminate structures		aldehyde, ketone, etc.)
	prepared by reacting an	169.49	With ether except dialkylene
	organic -C(=0)0- compound		or polyalkylene glycol
169.33	With organic -C(=0)0- group	169.5	With organic -C(-OH)- group
	containing compound except wax		containing compound, where the
	(e.g., fatty acid,		H of the -OH group can be
160 24	dicarboxylic acid, etc.)		<pre>replaced by a metal (e.g., alkanol, phenol, polyol,</pre>
169.34	Carbon bonded directly to the single bonded oxygen of		phenolate, etc.)
	the -C(=0)0- group (e.g.,	169.51	With organic -C(-OH)- group
	fatty acid ester, acid		containing compound, where the
	anhydride, etc.)		H of the -OH group can be
169.35	Plural -C(=0)0- groups		replaced by a metal (e.g.,
	attached directly or		alkanol, phenol, polyol,
	indirectly to each other by		alkanolate, dialkylene glycol,
	nonionic bonding		etc.)

169.52	Halogen containing or with organic halogen compound	170.26	With organic -C(=0)0- group containing compound except wax
169.53	With organic compound containing halogen		<pre>(e.g., fatty acid, dicarboxylic acid, etc.)</pre>
169.54	With bituminous or tarry residue, hydrocarbon, or naturally occurring wax	170.27	Carbon bonded directly to the single bonded oxygen of the -C(=0)0- group (e.g.,
169.55	With elemental silicon or inorganic silicon compound	170 00	fatty acid ester, acid anhydride, etc.)
169.56	With elemental metal or alloy or metal compound	170.28	Nitrogen, halogen, or chalcogen bonded directly to the carbon of the -C(=0)0-
169.57	With elemental carbon (e.g., graphite, coal, etc.)		group (e.g., alkylchloro carbonate, diethyl carbonate,
170.1	With nitrogen hetero ring compound		octyl carbanilate, dodecyl phenylcarbamate, urethane,
170.11 170.12	Chalcogen hetero atomWith chalcogen hetero ring	450.00	etc.)
170.13	compound	170.29	Plural -C(=0)0- groups attached directly or
170.13	<pre>Three-membered hetero ring (e.g., epichlorohydrin, epoxide, etc.)</pre>		indirectly to each other by nonionic bonding
170.14	Plural chalcogens in the hetero ring	170.3	Benzene ring attached directly or indirectly to the
170.15	With phosphorus compound		-C(=0)0- groups by nonionic bonding
170.16	<pre>Trialkyl or triaryl phosphate or mixed esters thereof (e.g., tributyl phosphate, triphenyl</pre>	170.31	Exactly two -C(=0)0- groups attached directly to the same benzene ring by nonionic bonding
	<pre>phosphate, dicresyl lauryl ortho phosphate, etc.)</pre>	170.32	With organic compound
170.17	With organic compound containing nitrogen		<pre>containing oxygen (e.g., alcohol, ketone, additional carboxylic acid ester, etc.)</pre>
170.18	<pre>With carboxylic acid, ester, or salt thereof</pre>	170.33	Cycloaliphatic ring attached directly or
170.19 170.2	With boron compoundWith organic compound		indirectly to the -C(=0)0- groups by nonionic bonding
150 01	containing silicon	170.34	Esterified dihydric or
170.21	With natural resin or derivative	170 25	polyhydric alcohol
170.22	With chemically modified lanolin, fat, or fatty oil	170.35	The polyhydric alcohol is glycerol (e.g., triacetin, tripropionin, glyceryl
	<pre>(e.g., blown, polymerized, hydrogenized, esterified, etc.)</pre>		<pre>diproprionate, glyceryl diproprionate monoacetate, etc.)</pre>
170.23	With lanolin, fat, or fatty oil (e.g., lard, tallow,	170.36	Nitrogen, sulfur, halogen, or oxygen other than in -
170.24	<pre>castor oil, linseed oil, etc.)With organic compound containing oxygen</pre>		<pre>C(=0)0- group attached indirectly to the -C(=0)0- groups by nonionic bonding</pre>
170.25	<pre>With terpene or derivative (e.g., camphor, pine oil,</pre>	170.37	Nitrogen attached indirectly to the -C(=0)0-
	terpineol, borneol, etc.)	170 20	group by nonionic bonding
		170.38	Oxygen attached directly to the -C(=0)0- group by nonionic bonding

170.39	Benzene ring attached	171.1	Cellulose acetate
170.39	directly or indirectly to the	172.1	Cellulose acetateCellulose ether or salt
	-C(=0)- group by nonionic	1/2.1	thereof
	bonding	172 01	
170.4	With organic compound	173.01	With nitrogen hetero ring compound
	containing oxygen (e.g.,	174.1	With chalcogen hetero ring
	alcohol, ketone, additional		compound
	carboxylic acid ester, etc.)	174.2	The chalcogen in the ring is
170.41	Metal or nitrogen salt	1,1.2	sulfur
170.42	With organic compound	175.1	With phosphorus compound
	containing nitrogen	176.1	With boron compound
170.43	Chalcogen and nitrogen in	177.1	With organic compound
	the same compound	± / / • ±	containing silicon
170.44	The nitrogen is single	178.1	With natural resin or
	bonded directly to carbon of a	170.1	derivative
	-C(=X)- group (X is chalcogen)	179.1	With lanolin, fat, or fatty
170.45	The nitrogen is single	1//.1	oil or derivative thereof
	bonded directly to sulfur of a		(e.g., lard, tallow, castor
	-S(=0)(=0)- group (i.e.,		oil, linseed oil, etc.)
	sulfonamide)	180.1	With terpene or derivative
170.46	With organic compound	100.1	(e.g., camphor, pine oil,
	containing sulfur		terpineol, borneol, etc.)
170.47	With organic -C(=0)- group	181.1	With organic -C(=0)0- group
	containing compound (e.g.,		containing compound except wax
	aldehyde, ketone, etc.)		(e.g., fatty acid,
170.48	Carbocyclic ring containing		dicarboxylic acid, etc.)
170.49	With organic -C(-OH)- group	182.1	Carbon bonded directly to
	containing compound, where the		the single bonded oxygen of
	H of the -OH group can be		the $-C(=0)O-$ group (e.g.,
	replaced by a metal (e.g.,		fatty acid ester, acid
	alkanol, phenol, polyol,		anhydride, etc.)
	phenolate, etc.)	183.1	Nitrogen or chalcogen
170.5	With ether except dialkylene		bonded directly to the carbon
	or polyalkylene glycol		of the $-C(=0)0-$ group (e.g.,
170.51	With organic $-C(-OH)-$ group		diethyl carbonate, dodecyl
	containing compound, where the		phenylcarbamate, octyl
	H of the -OH group can be		carbanilate, urethane, etc.)
	replaced by a metal (e.g.,	184.1	Plural -C(=0)0- groups
	alkanolate, alkanol, polyol,		attached directly or
170 50	dialkylene glycol, etc.)		indirectly to each other by
170.52	Carbocyclic ring containing	1010	nonionic bonding
170.53	With organic compound	184.2	Exactly two -C(=0)0-
170 54	containing halogen		groups attached directly to
170.54	Three or more halogens		the same benzene ring by
	containing or with additional	104 2	nonionic bonding
	organic compound containing halogen	184.3	Esterified dihydric or
170.55	With organic compound	185.1	polyhydric alcoholNitrogen attached
170.55	containing halogen	185.1	indirectly to the -C(=0)0-
170.56	With bituminous or tarry		group by nonionic bonding
170.50	residue, hydrocarbon, or	186.1	Oxygen attached indirectly
	naturally occurring wax	TOO.T	to the -C(=0)0- group by
170.57	With elemental silicon or		nonionic bonding
,	inorganic silicon compound		nontonic bonding
170.58	With elemental metal or alloy		
	or metal compound		
	12 medal dompodita		

186.2	Benzene ring attached directly or indirectly to the -C(=0)0- group by nonionic bonding	200.4	<pre>Alkanol amine or salt thereof (e.g., monoethanolamine formate, monoethanolamine</pre>
187.1	With organic compound containing oxygen (e.g., alcohol, ketone, carboxylic	201.1	hydrochloride, triethanolamine, etc.) With organic compound
188.1	<pre>acid ester, etc.)With organic compound containing halogen</pre>	202.1	<pre>containing halogenWith organic compound containing sulfur</pre>
189.1	Metal or nitrogen salt	203.1	With organic compound
190.1	With organic compound	203.1	containing oxygen
	containing nitrogen	203.2	Dihydric or polyhydric
191.1	With organic compound containing sulfur		alcohol or ether derivative thereof
192.1	With organic -C(=0)- group	203.3	Natural resin or organic -
	containing compound (e.g., aldehyde, ketone, etc.)	200.0	C(=0)0- compound (e.g., rosin, tall oil, tallow, castor oil, carboxylic acid, ester wax,
193.1	With ether except dialkylene		etc.)
194.1	or polyalkylene glycolWith organic -C(-OH)- group	204.01	With element or inorganic
	containing compound, where the	204.2	compound except water
	H of the -OH (hydroxyl) group	204.2	Elemental titanium or
	can be replaced by a metal	204.2	inorganic titanium compound
	<pre>(e.g., alkanol, phenol, alkanolate, phenolate, etc.)</pre>	204.3	Elemental silicon or
194.2	Plural hydroxyl groups	205.01	inorganic silicon compoundCarbohydrate gum, dextrin or
174.2	containing (e.g., glycol,	203.01	derivative (e.g., arabic,
	glycerol, etc.)		tragacanth, guar, karaya, agar
194.3	With organic compound		agar, algin, irish moss, etc.)
	containing halogen	205.1	With hetero ring compound
195.1	With organic compound		except carbohydrate
	containing halogen	205.2	With phosphorus compound
196.1	With bituminous or tarry	205.3	With boron compound
	residue, hydrocarbon, or	205.31	With organic compound
	naturally occurring wax		containing oxygen
197.01	With elemental silicon or inorganic silicon compound	205.4	With natural resin or derivative
198.1	With elemental metal or alloy	205.5	With terpene or derivative,
100 1	or metal compound		lanolin, fat, or fatty oil
199.1	With elemental carbon (e.g.,	205.6	With organic compound
	graphite, coal, carbon black,	005 5	containing sulfur or nitrogen
200.1	etc.)With organic compound	205.7	With organic compound containing oxygen except wax
	<pre>containing nitrogen (e.g., amine, quaternary ammonium</pre>	205.71	The oxygen is part of a - C(=0)0- group
	halide, etc.)	205.72	Dihydric or polyhydric
200.2	The nitrogen is part of a		alcohol
200 2	hetero ring	205.8	With bituminous or tarry
200.3	<pre>Oxygen and nitrogen in the same compound (e.g., amide,</pre>		residue, hydrocarbon, or naturally occurring wax
	ammonium alkyl sulfonate,	205.9	With element or inorganic
	urea, tertiary amine oxide,		compound except water
	etc.)	206.1	Starch or derivative
		207.1	Starch ester

207.2	With hetero ring compound except carbohydrate	217.4	With natural resin or derivative
207.3	With phosphorus compound or boron compound or organic	217.5	With hetero ring compound except carbohydrate
	compound containing silicon	217.6	With organic compound
207.4	With organic compound	217.0	containing nitrogen
	containing sulfur or nitrogen	217.7	With organic compound
207.5	With organic compound	,,	containing oxygen except wax
	containing oxygen except wax	217.8	With bituminous or tarry
208.1	Oxidized starch		residue, hydrocarbon, or
208.2	With hetero ring compound		naturally occurring wax
	except carbohydrate	217.9	With element or inorganic
208.3	With phosphorus compound or		compound except water
	boron compound or organic	218	.Natural resin or derivative
	compound containing silicon		containing
208.4	With organic compound	219	With fat, fatty oil, fatty oil
	containing sulfur or nitrogen		acid or salt thereof
208.5	With organic compound	220	Fatty oil
	containing oxygen except wax	221	Two or more kinds of fatty
209.1	With hetero ring compound		oil
	except carbohydrate	222	Drying oil
210.1	With phosphorus compound	223	With sulfurizing or
211.1	With boron compound		sulfonating agent
212.1	With organic compound	224	With wax
	containing silicon	225	With bituminous material or
213.1	With organic compound		tarry residue
	containing sulfur	226	With terpene or derivative
214.1	With organic compound	227	With hydrocarbon
	containing nitrogen	228	With filler, dye or pigment
214.2	Nitrogen and oxygen in the	229	With wax, bituminous material
	same compound		or tarry residue
215.1	With organic compound	230	With wax
	containing oxygen except wax	231	Ester type wax
215.2	The oxygen is part of a -	232	With bituminous material or
	C(=0)0- group		tarry residue
215.3	Carbon bonded directly to	233	With sulfurizing or
	the single bonded oxygen of		sulfonating agent
	the $-C(=0)0-$ group	234	With hydrocarbon
215.4	Plural -C=0)0- groups	235	With filler, dye or pigment
215.5	Dihydric or polyhydric	236	With solvent or dispersing
	alcohol		medium
216.1	With bituminous or tarry	237	Alcohol containing
	residue, hydrocarbon, or	238	Water containing
	naturally occurring wax	239	Hydrocarbon containing
217.01	With element or inorganic	240	With flux
	compound except water	241	With filler, dye or pigment
217.1	Elemental halogen or halogen	242	Fibrous
	containing	243	.Fat, fatty oil, fatty oil acid
217.2	Alkali or alkaline earth		or salt thereof containing
	metal hydroxide (e.g., caustic	244	Fatty oil
	soda, caustic alkali, caustic	245	With wax
	lime, etc.)	246	With bituminous material or
217.3	Elemental silicon or silicon		tarry residue
	containing	247	With sulfurizing or
			sulfonating agent

248	With filler, dye or pigment	284.1	Phosphorus containing
249	With sulfurizing or	284.2	Halogen containing
	sulfonating agent	284.3	Metal compound containing
250	Two or more kinds oil	284.4	Nitrogen containing
251	With filler, dye or pigment	285	.Hydrocarbon containing
252	Drying oil	286.1	.Inorganic materials only
253	With filler, dye or pigment		containing at least one metal
254	Zinc compound		atom
255	Lithopone	286.2	Containing two or more diverse
256	Lead compound		metal atoms in a single
257	White lead		compound
258	Red lead	286.3	Fe or Co containing
259	Iron compound	286.4	Group IV metal atom (Ti, Zr,
260	Calcium compound		Hf, Ge, Sn, or Pb) containing
261	Carbonaceous	286.5	Aluminum containing
262	Pigment treatment	286.6	Group II metal atom (Be, Mg,
263	With preserving or		Sr, Ca, Ba, Ra, Zn, Cd, or Hg)
203	stabilizing agent		containing
264	With drier	286.7	Group I metal atom (Li, Na, K,
265	With hydrocarbon		Rb, Cs, Fr, Cu, Ag, or Au)
266	With filler, dye or pigment		containing
267	With hydrocarbon	286.8	.Inorganic materials only
268	With wax	287.1	.Silicon containing other than
269	With bituminous material or		solely as silicon dioxide or
200	tarry residue		as part of an aluminum-
270	.Wax containing		containing compound
271	With solvent or dispersing	287.11	N-containing Si compound
2/1	medium	287.12	OH bonded directly to Si atom
272	With filler, dye or pigment	287.13	C bonded directly to Si atom
272	.Bituminous material or tarry	287.14	H or alkyl directly bonded to
Z/J.I	residue		Si
274	With sulfurizing or sulfonating	287.15	C radical bonded to Si is
271	agent		unsaturated
275	With filler, dye or pigment	287.16	Si-O-C bonded compound
276	Rock asphalt	287.17	.Aluminum compound containing
277	Rock asphare	287.18	.Heavy metal compound containing
278	With solvent or dispersing	287.19	Group IVA or IVB (Ti, Zr, Hf,
270	medium		Ge, Sn, Pb)
279	With flux	287.2	.Heterocyclic (only N, O, S, Se,
280	With filler, dye or pigment		Te)
281.1	With filler, dye or pigment	287.21	Two hetero ring atoms
282	Fibrous	287.22	Epoxy ring containing
283	Water containing	287.23	.O-containing organic compound
	_	287.24	Carbonyl group containing
284	Coal tar or pitch containing	287.25	N containing
284.01	Specified particle or screen- mesh size stated	287.26	Hydroxy group containing or
284.02	Heavy metal or aluminum		alcoholate
204.02	containing	287.27	.Halogen containing
284.03	Alkali or alkaline earth metal	287.28	Organic halide
407.03	containing	287.29	.Phosphorus or nitrogen
284.04	Lime, limestone or chalk		containing
407.07	containing	287.3	Nitrogen containing
284.05	Elemental carbon containing	287.32	.Sulfur containing
284.06	Nitrogen containing	287.34	.Silicon dioxide containing
		287.35	.Miscellaneous

	MATERIALS OR INGREDIENTS	430	Titanium compound containing
400	.Pigment, filler, or aggregate	431	Silicon or aluminum compound
	compositions, e.g., stone,		containing
	shale, pebbles, rock, etc.	432	Lead compound containing,
401	Composition contains identified		e.g., litharge, etc. (Pb)
400	material other than water	433	Lead chromate containing,
402	Lake containing		e.g., molybdate orange, chrome
403	Elemental metal or alloy containing	434	yellow, etcSilicon containing
404	Aluminum containing	435	Silicon containing
405	Fly ash, coal ash, or bottom	436	Titanium compound containing
100	ash or derived therefrom	100	(Ti)
406	Cork, bark, vegetable shell,	437	Oxidation of titanium
	hull or cob or material		tetrahalide or product
	derived therefrom	438	Zirconium compound containing
407	Organic refuse or waste		(Zr)
	material containing or derived	439	Iron, tungsten, molybdenum,
400	therefrom		or cerium compound containing
408 409	Alkali blue pigment containing	440	(Fe, W, Mo, Ce)
409	Hollow, porous or foam particle containing	440	Nickel, cobalt, copper, or cadmium compound containing
410	Phthalocyanine or derivative		(Ni, Co, Cu, Cd)
	containing	441	Antimony, chromium, arsenic,
411	Mixed phthalocyanines or		or tin compound containing
	derivatives		(Sb, Cr, As, Sn)
412	Special process of milling,	442	Aluminum compound or silicon
	grinding, comminuting, plural		containing
	stage or zone mixing or	443	Phosphorus containing
413	product	444	Alkali or alkaline earth
413	With organic compoundUltramarines, e.g.,	445	<pre>metal containingOrganic material containing</pre>
111	ultramarine green, etc.	446	Silicon containing
415	Mica, shell, scale, platelet,	447	Organic material containing
	or lamellate	448	Organic nitrogen containing
416	Clay containing or derived		material
	therefrom	449	Alkali or alkaline earth
417	Mica containing		metal containing
418	Iron or bismuth compound	450	Zirconium compound containing
410	containing (Fe or Bi)	4.5.1	(Zr)
419 420	Zinc compound containing (Zn)Zinc sulfide containing	451	Vanadium or praseodymium
420	Lithopone (zinc sulfide +	452	containing (V, Pr)Cadmium compound containing
121	barium sulfate)	132	(Cd)
422	Metal compound other than	453	Chromium compound containing
	barium or zinc containing		(Cr)
423	Subsequent treatment or	454	Silicon containing
	product thereof	455	Antimony containing (Sb)
424	Calcium compound containing	456	Iron compound containing (Fe)
425	Zinc oxide containing	457	Silicon containing, e.g.,
426	Aluminum compound or silicon		slag, turkey umber, Fullers
127	containing, e.g., clay, etc.	1 E O	earth, etc.
427	Sulfur or phosphorus containing	458	Compound containing carbon triple bonded to nitrogen,
428	Titanium compound containing		e.g., prussian blue, iron
429	Organic material containing		blue, etc.
-	5		

459	With other metal compound	480	Cobalt, nickel, or copper
460	Organic material containing		compound containing (Co, Ni,
461	Alkaline earth metal compound		or Cu)
	containing, other than glass,	481	Silicon containing
	e.g., ettringite, gypsum,	482	Inorganic silicon compound,
		402	
	barium sulfate, anhydrite,		e.g., diatomaceous earth,
	etc.		soil, glass, sand, etc., or
462	Phosphorus or boron		material derived therefrom
	containing	483	Aluminum compound
463	Carbonate containing		containing, e.g., feldspar,
464	Calcium containing, e.g.,		mullite, etc.
	calcite, dolomite, chalk,	484	Special process of milling,
	whiting, etc.		grinding, crushing or
465	<u> </u>		comminuting or product
405	Organic material or silicon	405	
	containing	485	Special process of
466	Soil or inorganic silicon		pelletizing or agglomerating
	compound containing, e.g.,		or product
	granite, chrysotile, asbestos,	486	Clay or material derived
	etc.		therefrom containing
467	Aluminum compound	487	Organic material
	containing, e.g., zeolites,		containing
	perlite, etc.	488	Bleaching treatment or
468	Clay or material derived	100	product
400	<u>-</u>	400	-
	from clay containing, e.g.,	489	Glass containing
	bentonite, montmorillonite,	490	Organic silicon material
	etc.		containing
469	Talc, e.g., soapstone, etc.	491	Organic material containing
470	Calcium silicate, e.g.,	492	Treatment of alkali silicate
	dicalcium silicate or silicate		with mineral acid or product
	hydrate, tobermorite,	493	Organic pigment containing
	wollastonite, etc.	494	Mixed pigments containing
471	Organic material containing	495	Quinacridone pigment or
472	Elemental carbon containing,	100	derivative
	e.g., carbon black, etc.	100	
473	Sulfur containing, treatment	496	Pigment containing -N=N-
175	<u> </u>		group
4 17 4	therewith or product	497	Quinacridone pigment or
474	Metal compound containing		derivative
475	Silicon containing	498	Ring containing atom other
476	Organic material containing,		than carbon
	e.g., wax, paraffin, etc.	499	Organic material containing
477	Fat, oil, higher fatty acid	500	Rosin, natural resin or
	or derivative, e.g., tallow,		derivative, e.g., shellac,
	mineral oil, essential oils,		dammar, colophony, turpentine,
	salts, amides and esters of		
	fatty acids, soap, etc.	E01 1	etc.
170		501.1	Carbohydrate, proteinaceous
478	Oxidation of carbon black or		material, gum, or lignin
	product thereof, e.g.,		<pre>(e.g., pectate alginate,</pre>
	treating of carbon black to		albumin, glue, etc.)
	increase volatile content or	502	Wax, paraffin, bituminous
	to lower pH, etc.		material, asphalt, oil shale,
479	Bismuth, vanadium, molybdenum,		tar or pitch containing
	or tungsten compound	503	Sulfur or phosphorus
	containing (Bi, V, Mo, or W)	-	containing
			2311041111113

504	<pre>Fatty, oil, higher fatty acid or derivative e.g., tallow,</pre>	FOR 104With carbohydrate or derivative (106/126)
	<pre>mineral oil, essential oils, salts amides and esters of</pre>	FOR 105Cellulose or derivative (106/ 127)
	higher fatty acids, soaps,	FOR 106Cellulose ether or ester
	etc. stabilization, etc.)	(106/128)
505	Carboxylic acid or	FOR 107Gum or derivative (106/129)
	derivative, e.g., tannin, etc.	FOR 108Starch or derivative (106/
506	Ring containing atom other	130)
	than carbon	FOR 109With fat, fatty oil, fatty oil
310	.Driers	acid or salt thereof (106/131)
311	.Vehicles or solvents	FOR 110Fatty oil (106/132)
312	.Opacifiers for enamels	FOR 111With natural resin or
313	.Ceramic fluxes	derivative (106/133)
819	.Additive materials for inorganic	FOR 112With was, bituminous material
	cements which contain a	or tarry residue (106/134)
	hydraulic settable material	FOR 113With solvent or dispersing
820	Expanding, foaming or porosity	medium (106/135)
	producing additive	FOR 114With flux or plasticizer (106/
821	Protein containing additive	136)
822	Wax, tallow, oil, natural resin	FOR 115With filler, dye or pigment
	or higher fatty acid or salt,	(106/137)
	amide, or ester thereof	FOR 116 Casein or derivative (106/138)
	containing additive (e.g.,	FOR 117With carbohydrate or
	rosin, tall oil, hydrocarbon	derivative (106/139)
	oil, etc.)	FOR 118Cellulose or derivative (106/
823	Organic material containing	140)
	additive (e.g., carbohydrate,	FOR 119Cellulose ether or ester
	bituminous material, etc.)	(106/141)
316	.Miscellaneous	FOR 120With fat, fatty oil, fatty oil
		acid or salt thereof (106/142)
		FOR 121Fatty oil (106/143)
		EOD 100 with material and the con-

CROSS-REFERENCE ART COLLECTIONS

RELATING TO SUBCLASS 287.1 900 SOIL STABILIZATION 901 LOW MOLECULAR WEIGHT HYDROCARBON POLYMER-CONTAINING MIXTURE

FOREIGN ART COLLECTIONS

FOR		CLASS-RELATED FOREIGN DOCUMENTS
		COATING OR PLASTIC COMPOSITIONS
		(106/UNNUMBERED SUBCLASS)
FOR	100	.Cellulose liberation liquor
		containing (106/123.1)
FOR	101	Tall oil (106/123.2)
FOR	102	.Protein or derivative containing
		(106/124)
FOR	103	Gelatine, glue or derivative
		(106/125)

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, fatty oil
                               f (106/131)
                               )
                               or
                               )
                               ıs material
                               06/134)
                               spersing
                               cizer (106/
                                pigment
                                (106/138)
                               or
                               )
                               rative (106/
                               r ester
                               , fatty oil
                               f (106/142)
FOR 122 ...With natural resin or
           derivative (106/144)
FOR 123 ...With wax, bituminous material
          or tarry residue (106/145)
FOR 124 ...With solvent or dispersing
          medium (106/146)
FOR 125 ...With flux or plasticizer (106/
           147)
FOR 126 ... With filler, dye or pigment
           (106/148)
FOR 127 ...Prolamine or derivative (106/
           149)
FOR 128 ...With carbohydrate or
           derivative (106/150)
FOR 129 .... Cellulose or derivative (106/
          151)
FOR 130 ...With wax, bituminous or
           resinous material or tarry
           residue (106/152)
FOR 131 ...With flux, solvent or
           dispersing medium (106/153)
FOR 132 .. Seed protein or derivative
           (106/154)
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- FOR 133 .. Feathers, hair or leather (106/ 155)
- FOR 134 ...With wax, bituminous or resinous material or tarry residue (106/156)
- FOR 135 ..With carbohydrate or derivative (106/157)
- FOR 136 ...Cellulose or derivative (106/ 158)
- FOR 137 ..With fat, fatty oil, fatty oil acid or salt thereof (106/159)
- FOR 138 ..With wax, bituminous or resinous material or tarry residue (106/160)
- FOR 139 ..With flux, solvent or dispersing medium (106/161)
- FOR 140 .Carbohydrate or derivative containing (106/162)
- FOR 141 ..Cellulose or derivative (106/ 163.1)
- FOR 142 ... Viscose (106/164)
- FOR 143Spinning solutions (106/165)
- FOR 144With delustering agent (106/
- FOR 145 ...Cuprammonium cellulose (106/
- FOR 146 ...Regenerated cellulose (106/ 168)
- FOR 147 ...Cellulose ether or ester (106/ 169)
- FOR $148 \dots \text{Emulsions} (106/170)$
- FOR 149With fat, fatty oil, fatty oil acid or salt thereof (106/171)
- FOR 150With natural resin or derivative (106/172)
- FOR 151With natural resin or derivative (106/173.1)
- FOR 152With terpene or derivative (106/174)
- FOR 153With ether, ester or alcohol (106/175)
- FOR 154With heterocyclic compound (106/178)
- FOR 155With phosphorus containing compound (106/177)
- FOR 157Ether group containing (106/
- FOR 158Polyhydric alcohol ester (106/180)
- FOR 159Polycarboxylic acid, salt or ester thereof (106/181)

- FOR 160Oxo- or oxy-acid or ester thereof (106/182)
- FOR 161Lower fatty acid or ester thereof (106/183)
- FOR $162 \dots$ With aldehyde or ketone (106/184)
- FOR 163With ether or alcohol (106/
- FOR $164 \dots$ With amine or amide (100/186)
- FOR $165 \dots$ With aldehyde or ketone (106/ 187)
- FOR 166With ether (106/188)
- FOR 167With alcohol or phenol (106/ 189)
- FOR 168With halogen containing carbon compound (106/190)
- FOR 169With hydrocarbon, wax, bituminous material or tarry residue (106/191)
- FOR 170With delustering agent (106/ 192)
- FOR 171With metal salt (106/194)
- FOR 172Cellulose nitrate (106/195)
- FOR 173Cellulose acetate (106/196)
- FOR 174Cellulose ether (106/197.1)
- FOR 175Carboxymethyl cellulose (106/197.2)
- FOR 176 Processes (106/198)
- FOR 177 ...With fat, fatty oil, fatty oil acid or salt thereof (106/199)
- FOR 178 ...With natural resin or derivative (106/200)
- FOR 179 ...With wax (106/201)
- FOR 180 ...With bituminous material or tarry residue (106/202)
- FOR 181 ...With solvent or dispersing medium (106/203)
- FOR 182 ...With filler, dye or pigment (106/204)
- FOR 183 ...Cork (106/204.1)
- FOR 184 .. Carbohydrate gum (106/205)
- FOR 185 ...With fat, fatty oil, fatty oil acid or salt thereof (106/206)
- FOR 186 ...With wax, bituminous or resinous material or tarry residue (106/207)
- FOR 187 ...With solvent or dispersing medium (106/208)
- FOR $188 \dots$ With filler, dye or pigment (106/209)
- FOR 189 ...Starch containing (106/210)
- FOR 190 ...With fat, fatty oil, fatty oil acid or salt thereof (106/211)

- FOR 191 ...With wax, bituminous or resinous material or tarry residue (106/212)
- FOR 192 ...With solvent or dispersing medium (106/213)
- FOR 193 ...With filler, dye or pigment (106/214)
- FOR 194 ..With fat, fatty oil, fatty oil acid or salt thereof (106/215)
- FOR 195 ..With was, bituminous or resinous material or tarry residue (106/216)
- FOR 196 ..With filler, dye or pigment (106/217)

DIGESTS

- DIG 1 FLY ASH
- DIG 2 **PERLITE**
- DIG 3 MICA
- DIG 4 BENTONITE
- DIG 7 ASPHALT BINDERS IN COATING COMPOSITIONS